Title: MURINE MONOCLONAL ANTI-IDIOTYPE ANTIBODY 11D10
AND METHODS OF USE THEREOF
Inventor(s): Malaya CHATTERJEE et al.
Application No.: 08/836,455
Docket No.: 304142000322

Sheet 1 of 8

1/8

Figure 1

```
K     G     A     P     A     Q     I     L     G     F
ATG   GGG   GCC   CCT   GCT   CAG   ATT   CTT   GGG   TTC

L     L     L     L     F     P     G     T     R     C
TTG   TTG   CTC   TTG   TTT   CCA   GGT   ACC   AGA   TGT
(leader, -20-1)


D     I     Q     M     T     Q     S     P     S     S
GAC   ATC   CAG   ATG   ACC   CAG   TCT   CCA   TCC   TCC
L     S     A     S     L     G     Q     R     V     S
TTA   TCT   GCC   TCT   CTG   GGA   CAA   AGA   GTC   AGT
L     T     C
CTC   ACT   TGT   (fr.1, 1-23)


R     A     S     Q     D     I     G     I     N     L
CGG   GCA   AGT   CAG   GAC   ATT   GGT   ATT   AAC   TTA
H
CAT   (cdr1, 24-34)


T     L     Q     Q     E     P     D     G     T     I
TGG   CTT   CAG   CAG   GAA   CCA   GAT   GGA   ACT   ATT
K     R     L     I     Y
AAA   CGC   CTG   ATC   TAC   (fr2., 35-49)


A     T     S     S     L     G     S
GCC   ACA   TCC   AGT   TTA   GGT   TCT   (cdr2, 50-56)


G     V     P     K     R     F     S     G     S     R
GGT   GTC   CCC   AAA   AGG   TTC   AGT   GGC   AGT   AGG
S     G     S     D     Y     S     L     T     I     S
TCT   GGG   TCA   GAT   TAT   TCT   CTC   ACC   ATC   AGC
S     L     E     S     E     D     F     V     A     Y
AGC   CTT   GAG   TCT   GAA   GAT   TTT   GTA   GCC   TAT
Y     C
TAC   TGT   (fr3, 57-88)


L     Q     Y     A     S     S     P     Y     T
CTA   CAA   TAT   GCT   AGT   TCT   CCG   TAC   ACG
(cdr3, 89-97)


F     G     G     G     T     K     L     E     I     K
TTC   GGA   GGG   GGG   ACC   AAG   CTG   GAA   ATA   AAA
(fr4, 98-107)


R     A     D     A     A     P     T     V     S     I
CGG   GCT   GAT   GCT   GCA   CCA   ACT   GTA   TCC   ATC
F     P     P     S     S     K     L     G
TTC   CCA   CCA   TCC   AGT   AAG   CTT   GGG
```

Title: MURINE MONOCLONAL ANTI-IDIOTYPE ANTIBODY 11D10
AND METHODS OF USE THEREOF
or(s): Malaya CHATTERJEE et al.
Application No.: 08/836,455
Docket No.: 304142000322

Sheet 3 of 8

3/8

Figure 3A

DIQMTQSPSSLSASLGQRVSLTC — Framework #1, 1–23

RASQDIGINLH — CDR-1, 24–34

TLQQEPDGTIKRLIY — Framework #2, 35–49

ATSSLGS — CDR-2, 50–56

GVPKRFSGSRSGSDYSLTISSLES·EDFVAYYC — Framework #3, 57–88

LQYASSPYT — CDR-3, 89–97
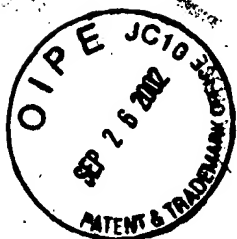
FGGGTKLEIK — Framework #4, 98–107

Figure 1

```
        M    G    A/   P    A    Q    I    L    G    F
        M    G    X
       ATG  GGG  GCC  CCT  GCT  CAG  ATT  CTT  GGG  TTC

        L    L    L    L    F    P    G    T    R    C
       TTG  TTG  CTC  TTG  TTT  CCA  GGT  ACC  AGA  TGT
       (leader, -20-1)


        D    I    Q    M    T    Q    S    P    S    S
       GAC  ATC  CAG  ATG  ACC  CAG  TCT  CCA  TCC  TCC
        L    S    A    S    L    G    Q    R    V    S
       TTA  TCT  GCC  TCT  CTG  GGA  CAA  AGA  GTC  AGT
        L    T    C
       CTC  ACT  TGT   (fr.1, 1-23)


        R    A    S    Q    D    I    G    I    N    L
       CGG  GCA  AGT  CAG  GAC  ATT  GGT  ATT  AAC  TTA
        H
       CAT   (cdr1, 24-34)



        T    L    Q    Q    E    P    D    G    T    I
       TGG  CTT  CAG  CAG  GAA  CCA  GAT  GGA  ACT  ATT
        K    R    L    I    Y
       AAA  CGC  CTG  ATC  TAC  (fr2., 35-49)



        A    T    S    S    L    G    S
       GCC  ACA  TCC  AGT  TTA  GGT  TCT   (cdr2, 50-56)



        G    V    P    K    R    F    S    G    S    R
       GGT  GTC  CCC  AAA  AGG  TTC  AGT  GGC  AGT  AGG
        S    G    S    D    Y    S    L    T    I    S
       TCT  GGG  TCA  GAT  TAT  TCT  CTC  ACC  ATC  AGC
        S    L    E    S    GE   D    F    V    A    Y
       AGC  CTT  GAG  TCT  GAA  GAT  TTT  GTA  GCC  TAT
        Y    C
       TAC  TGT    (fr3, 57-88)



        L    Q    Y    A    S    S    P    Y    T
       CTA  CAA  TAT  GCT  AGT  TCT  CCG  TAC  ACG
       (cdr3, 89-97)



        F    G    G    G    T    K    L    E    I    K
       TTC  GGA  GGG  GGG  ACC  AAG  CTG  GAA  ATA  AAA
       (fr4, 98-107)


        R    A    D    A    A    P    T    V    S    I
       CGG  GCT  GAT  GCT  GCA  CCA  ACT  GTA  TCC  ATC
        F    P    P    S    S    K    L    G
       TTC  CCA  CCA  TCC  AGT  AAG  CTT  GGG
```

Figure 3A

DIQMTQSPSSLSASLGQRVSLTC — Framework #1, 1–23

RASQDIGINLH — CDR-1, 24–34

TLQQEPDGTIKRLIY — Framework #2, 35–49

ATSSLGS — CDR-2, 50–56

E

GVPKRFSGSRSGSDYSLTISSLESØDFVAYYC — Framework #3, 57–88

LQYASSPYT — CDR-3, 89–97

FGGGTKLEIK — Framework #4, 98–107